

Zinstall WinServ User Guide



Zinstall WinServ User Guide

Thank you for purchasing Zinstall WinServ.

If you have any questions, issues or problems, please contact us:

| Support email: | <u>support@zinstall.com</u> |
|--------------------|-----------------------------|
| Sales email: | sales@zinstall.com |
| Visit our website: | www.zinstall.com |

Copyright © ZVT, Inc., all rights reserved.

"Zinstall", "Zinstall XP7", "Zinstall zPOD", "Zinstall WinWin", "Zinstall HDD", "Zinstall WinServ", "Zinstall Migration Suite" and the Zinstall logo are registered trademarks of ZVT, Inc.

"Windows", "Windows XP", "Windows Vista", "Windows 7", "Windows 8" are registered trademarks of Microsoft Corporation.

All other trademarks and copyrights referred to are the property of their respective owners.

Distribution of modified versions of this document is prohibited without the explicit permission in writing of the copyright holder. Distribution of this work or derivative work for commercial purposes is prohibited unless prior permission is obtained from the copyright holder.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Contents

| Introduction | 4 |
|---|----|
| System Requirements | 5 |
| Migration Target | 5 |
| Operating system supported | 5 |
| Notes | 5 |
| Preparing for Migration | 6 |
| Before You Begin | 6 |
| Anti-virus / Internet security software | 6 |
| Domain considerations | 6 |
| Running and activating the software | 7 |
| Scenario 1: Migration from one server to another – over the network | 9 |
| Scenario 2: Migration via intermediate storage location - without a direct connection | 9 |
| Scenario 3: Transfer from a physical machine to a Virtual Machine (P2V) | 9 |
| Scenario 4: Rescuing a broken server / Migration from a separate hard drive | 9 |
| Additional Options | 10 |
| Performing the Transfer | 11 |
| Scenario 1: Migration from one server to another – over the network | 11 |
| Scenario 2: Transfer without a direct connection | 16 |
| Scenario 3: Rescuing a broken server / Migration from another hard drive | 21 |
| Additional Options | 23 |
| Appendix A | |
| Troubleshooting Guide | |
| Message Codes | |
| After the Migration | 43 |

Introduction

Zinstall WinServ supports multiple migration scenarios, among them:

- 1. Migration from one server to another: over the network or via a direct network cable
- 2. **Rescuing a broken server** / Migration from a separate hard drive: by transferring applications, settings and files directly off the source server's hard drive
- 3. **Transfer via intermediate storage location without a direct connection**: Capturing a machine into a container file, and deploying a container file on another machine used when both machines are not available at the same time, or to use a separate storage location instead of a network transfer
- 4. **Transfer from a physical server to a Virtual Server (P2V)** including Hyper-V, VMWare, Cloud and VDI environments, or even cross-Cloud transfers.

In each of the scenarios, WinServ allows to transfer the entire user workspace, including applications, settings, personalization, documents and data files. Zinstall WinServ performs a native migration, implanting all of the above directly into the target environment.

Each of the scenarios can be modified to perform selective transfer, transfer without applications or transfer using an encrypted container.

Windows OS, Windows OS server roles, security suites/antiviruses and special purpose drivers are not transferred from the source system.

System Requirements

Migration Target

| | Minimum | Recommended |
|--------------------------|--|---|
| Processor | Intel Pentium 4 or AMD Athlon XP CPU | Intel or AMD Dual core CPU |
| Memory | 1GB RAM | 2GB RAM or higher |
| Hard drive free space | 1GB and, in addition, enough space for transferred applications and files | 20GB and, in addition, enough space for transferred applications and files |
| Network Adapter | 10/100 network adapter / wireless | Gigabit network adapter |

Operating system supported

| Operating system | Source (Old) | Target (New) |
|------------------|--------------|--------------|
| Windows 2003 | Yes | Yes |
| Windows 2008 | Yes | Yes |
| Windows 2012 | Yes | Yes |
| Windows 2016 | Yes | Yes |

In all of the options above, 32bit to 64bit transfers are supported as well.

Notes

- Zinstall software must be executed with administrative privileges on both source and target systems
- Zinstall software cannot be executed when the Windows OS is running in safe mode
- If the Windows operating system is malfunctioning, or any of Windows subcomponents are corrupt, the migration might not work properly
- Internet connection is required to perform online product activation

Preparing for Migration

Before You Begin

Before beginning the transfer process, it is strongly recommended to prepare your system according to the following checklist. Doing so will ensure the migration is successful and not affected by possible system issues.

- 1. Uninstall / disable all security software, antivirus or firewalls.
- 2. Close all running applications.
- 3. It is recommended especially for older machines to verify file system consistency by running the standard Windows CHKDSK utility. For further instructions, see *Appendix A*, *CHKDSK*
- 4. If one of the hard drives you are using (either SOURCE or TARGET) is formatted with the FAT32 file system, it is required to convert them to NTFS before performing the migration. For further instructions, see *Appendix A*, **Converting a FAT32 drive to NTFS** file system.
- 5. Make sure there is at least 1 GB free space on each hard drive.

Anti-virus / Internet security software

Some releases of anti-virus / internet security software products lack a proper identifying mechanism and might mistakenly consider Zinstall software to be a threat. Zinstall code is digitally signed, according to policy, by official worldwide Certification Authority; nevertheless, some of the anti-virus / internet security software might automatically, and without asking the user, prevent Zinstall from normal execution. It is recommended to uninstall anti-virus / internet security software, in order to get instructions on how to add Zinstall to the "white list" of permitted software.

Domain considerations

If you are migrating between two servers in a domain environment, you must add the target machine to the domain **before** the migration, and log in as the same user on both machines.

Furthermore, during the migration process, the target server should be on the domain network, in order to allow it to authenticate the transferred profiles.

Running and activating the software

The first step in performing the migration is running the software on your servers.

IMPORTANT: If you have two servers (migrating from one to another, i.e. an old one and a new one), you need to run the software on both the source and the target server.

Follow this guide on each of the servers involved:

- 1. If an Internet connection is available, connect the server to the Internet to simplify product activation.
- 2. Put the Zinstall software on the SOURCE server
 - a. If the Zinstall product was purchased electronically, download the software using the link from the Zinstall License Information email received after purchasing.
 - b. If the Zinstall product was obtained as a packaged CD, install the software from the CD.
- 3. Run the software
- 4. Perform product activation:
 - a. When Zinstall software is purchased electronically over the Internet, the serial number is obtained from the License Information email, which is sent from Zinstall Support upon purchase.
 - b. When Zinstall software is purchased as a packaged CD, the serial number is printed on a sticker on the CD package.
 - c. You need to supply the serial number when prompted by the software.
 - d. When Zinstall software runs for the first time, you will be asked to enter the serial number and your email address:

| Zinstall activation | ? 🔀 |
|--|----------------------------------|
| Please enter your license information: | |
| Serial Number: | |
| Email: | |
| | Don't have a license? Click here |
| | |
| | |
| Exercise By | Activate Cancel |

- e. It is very important to provide a correct email address, otherwise you may experience difficulties in receiving support Zinstall Support System recognizes licensed users by email address.
- 5. Enter the serial number and email address
 - a. If a red "X" appears to the right of the serial number, this means that the serial number has been accidentally mistyped. Double-check all of the characters, and correct the typo.
 - b. When a green checkmark appears to the right of the serial number, this means that the number has been typed correctly.

| ? — × — | ? × |
|----------------------------------|----------------------------------|
| : | : |
| DDDD-EEEE-FFFF-GGGG-HHHH-ZZ | -DDDD-EEEE-FFFF-GGGG-HHHH-3F |
| s@example.com | s@example.com |
| Don't have a license? Click here | Don't have a license? Click here |
| Activate Cancel | Activate Cancel |

6. Press the "Activate" button. An "Activation in progress" message will appear:



- a. If the server is connected to the Internet, activation will be performed automatically over the Internet.
- b. If the server cannot be connected to the Internet, the activation can be performed using any other Internet connection ("offline activation"). If this is the case, see *Appendix A*, *Web Activation* for further instructions.
- 7. After a successful activation, the following message will appear:



What is your migration scenario?

Before you begin the migration process, check which of the scenarios below best matches your situation and goals. Then, follow the appropriate guide to complete your migration.

Scenario 1: Migration from one server to another – over the network

For transfers between two servers – a Source and a Target – when both servers are fully functional and connected to the same network.

IMPORTANT: This transfer is performed with the servers connected to the same network, same router or directly with a network cable. When your servers cannot connect to each other properly, refer to Scenario 1 (transfer by connecting the source server's hard drive directly to the target server).

See page 11 for a detailed, step-by-step guide.

Scenario 2: Migration via intermediate storage location - without a direct connection

This scenario allows to perform the transfer not directly, but instead in two separate phases: first, capture the source machine into a container file, stored on a network storage, external hard drive or other storage media and then –deploy the captured container onto the target machine. This allows to perform the transfer even when the source and the target machines are not available at the same time, when the Phase Two need to be delayed or if network storage or external physical storage is the desired way of transfer.

See page 16 for a detailed, step-by-step guide.

Scenario 3: Transfer from a physical machine to a Virtual Machine (P2V)

The Target may be not a Physical, but a Virtual machine. This includes migrating to Hyper-V, VMWare, Cloud and VDI environments. In order to perform such migration, use the instructions for scenario 1 or 2, depending on connection type.

Scenario 4: Rescuing a broken server / Migration from a separate hard drive

When the old server is broken, cannot be turned on, or its Windows OS is malfunctioning (VSS failure, WMI problem etc.), the transfer can still can be performed – directly off the hard drive of the source server. The hard drive may be connected either internally or externally (using a USB adapter or hard drive enclosure).

Refer to page 21 for a detailed, step-by-step guide.

Additional Options

Each of the scenarios above can be modified with additional options below.

SSD Mode (split transfer between a small SSD and a large HDD)

When the target computer has a smaller, faster SSD for OS and applications, and a larger, slower HDD for data, the transfer must take that into account – transferring application configurations to the SSD, and the bulk of the data to the HDD. SSD mode is enabled in the appropriate "Target Selection" screen – as instructed by the guide.

Transferring profiles, settings and data - but NOT applications

In all scenarios, the product allows to transfer only profiles, settings and data – without transferring applications. An example of such transfer is when migration is performed to a machine which already has a corporate standard "golden image", where applications are already installed, but data and settings are missing. This option is toggled by a switch on the main Scenario Selection screen on the Target computer. It is available in all scenarios.

Selective Migration

In all of the scenarios above, the product allows to perform a selective migration: transferring only chosen parts of the source system, instead of all of its applications, settings and files.

Command Line Execution

Zinstall Migration WinServ may also be executed from a command line interface, instead of manual GUI selection.

This allows for automation of the migration process, as well as for granular excludes of files, folders and applications that should not be transferred.

Post-migration adjustment rules

In addition to configuring the migration itself, you can define post-migration adjustments. These are special rules for string replacement in files of your choice. For example, you can set a rule to adjust configuration files by changing the old server name to the new server name or the old server IP address to a new IP address.

Performing the Transfer

IMPORTANT NOTE for migrations in a **domain** environment:

If your servers are in a domain, make sure to add the target machine to the domain before starting the migration. If you are moving between two machines, make sure to also log in as the **same domain user** on both machines. During the transfer, make sure the target machine has connectivity to the domain (i.e., not disconnected from the network).

Scenario 1: Migration from one server to another – over the network

On the SOURCE server

 Run and activate the software on the source server. You will first see the main migration screen. Select the first option, "Moving between two machines" and click Next.



2. On the next screen, select "This is the source computer" and click Next.

| Scepario selection | Machine selection | |
|-----------------------|---------------------------------------|--|
| Machine selection | Is this the source or target machine? | |
| Prerequisite check | | |
| Source selection | This is the source computer | |
| Target selection | | |
| Configuration Summary | | |
| Migration | This is the target computer | |

- 3. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 4. The following screen will appear, which means the SOURCE server is ready to start the transfer. Do not exit the software until the migration is complete. You now need to continue the guide, running the software on the target server



On the TARGET server

50

1. Run and activate the software on the target server. You will first see the main migration screen. Select the first option, "Moving between two machines" and click Next.

| Scenario selection | Scenario selection Select the migration scenario |
|--|---|
| Prerequisite check Source selection | Moving between two machines Transfer from one machine to another over the network |
| Configuration Summary Migration | Moving from old hard drive Transfer from old hard drive connected internally or externally |
| | Moving from machine to container Create an image of current machine for backup and migration |
| | Moving from container to machine Transfer from a backup or VM container to this machine |
| | Moving from windows.old folder Restore old Windows contents in-place from windows.old folder |
| | Select migration type |
| | Migrate programs, settings, and user profiles |
| | Migrate settings and user profiles only |
| | Migrate setungs and user profiles with OVERVIKETE option |
| | |

2. On the next screen, select "This is the target computer" and click Next.



- 3. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 4. At this point, the new server will search for the old one.

If the servers are on the same network subnet (or connected directly), they will find each other automatically. You will know that this has happened when a green checkmark appears on the Source server, and the Target server will show the Source server's description on the "Source selection" screen.

NOTE: The "handshake" may take several minutes until the servers connect over the network, during which time the description area will remain blank.

| Zinstall | |
|---|---|
| Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration | Source selection Select migration source Image: USER-PC Image: Ware Control of the second |

Manual source selection:

If your servers are not located on the same network segment, automatic discovery will not find the old server. In this case, you can specify the source server's IP address manually to force discovery.

To do that, switch the toggle at the bottom of the screen to its second position, "Manually enter source machine IP address".

Enter the IP address of the source server and click "Connect".

As long as the source server is accessible from the new one, it will be detected as migration source and appear above.

| Automatically detect available source machines | X Advanced | 🔹 <u>R</u> efresh |
|--|----------------|-------------------|
| O Manually enter source machine IP address: | | Connect |
| < <u>B</u> ack | <u>N</u> ext > | Cancel |

5. Once you have completed the Source selection, click Next to continue.

- 6. You will see the "SSD mode" option screen. If you require a hybrid SSD storage support, see *Scenario 5: SSD Mode* for more information. Otherwise, simply click Next to continue.
- 7. You will see the "Configuration Summary" screen. Review the summary and press the "Go" button to start the migration when ready.

During the migration process Zinstall shows how migration stages advance. No user action is required at these stages.

IMPORTANT: Even if the progress bar does not advance for a long time, or the server's display becomes black, it does not mean the server is stuck. The entire transfer process may take a very long time. It depends on multiple factors, such as network connection speed hard drive condition and bad sectors, hard drive speed, overall performance etc.

Accordingly, the progress bar may not show progress for hours – it is normal.

If, after a while, the screen on the Target server becomes black, move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new server, the migration is complete, and you can safely exit the software on the SOURCE server as well, by pressing the "Cancel" button.

Scenario 2: Transfer without a direct connection

Use to perform the migration in two stages:

- First, capture the source machine into a container file, storing the container on network storage, external hard drive or other storage location.
- Then, deploy from the captured container onto the target server.

This allows to perform the transfer even if both machines are not available at the same time, or if network storage or external physical storage is the desired way of transfer.

See next page for instructions.

On the SOURCE server

1. Run and activate the software on the source server. You will first see the main migration screen. Select the third option, "Moving from machine to container", and click Next.

| Zinstall | 6.2.4.4 |
|--|---|
| Scenario selection | Scenario selection Select the migration scenario |
| Prerequisite check Source selection Target selection Configuration Summary Migration | Moving between two machines Transfer from one machine to another over the network Moving from old hard drive Transfer from old hard drive connected internally or externally |
| | Moving from machine to container Create an image of current machine for backup and migration |
| | Moving from container to machine Transfer from a backup or VM container to this machine |
| | Moving from windows.old folder Restore old Windows contents in-place from windows.old folder |

- 2. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 3. On the next screen, select the volumes you would like to capture into the container.

| Zinstall | |
|---|---|
| Scenario selection Machine selection Prerequisite check | Source selection Select migration source |
| Source selection Target selection Configuration Summary | Volume Unused (System Reserved) |
| Migration | 69 MB free of 104 MB |
| | 78 GB free of 128 GB Volume Unused |
| | 105 MB free of 471 MB |
| | |
| | 🚿 Advanced 📚 <u>R</u> efresh |
| | < Back Next > Cancel |

4. If you prefer to leave some of your files or folders out of the container, you can do that by pressing the Advanced button. You will be able to pick which files and folders get excluded from the container (not captured), or do the same for specific file extension or file size limits. If you just want to capture everything, you do not need to go into the Advanced menu.

| Machine to Container Advanced Options | | | | | - | | × |
|--|-----------------|---|--|---|--|--------|-----|
| Volume: C:\ 🔻 | | | | | Exclude by extension | | |
| Name Name Lsers | Size | Type File Folder File Folder File Folder File Folder File Folder File Folder File Folder File Folder File Folder | Date Modified 10/25/2017 8:01:14 AM 10/24/2017 7:12:27 AM 7/16/2016 5:40:43 AM 2/27/2017 8:08:52 AM 2/27/2017 8:06:11 AM 7/16/2016 5:40:43 AM 2/27/2017 8:07:46 AM 10/24/2017 7:12:21 AM 2/27/2017 8:04:12 AM 2/27/2017 8:04:01 AM | ~ | Exclude by extension (e.g. *.mp4): Add Excluded file extensions: | Rem | ove |
| Excluded folders and files: C:\ESD | | | | | | | |
| C:\Users\user\Documents\Alice's Adventures | in Wonderland.p | df | | | Exclude by file size | | GB |
| | | | | | ОК | Cancel | |

- 5. On the next screen, click Browse to select the location where the container file will be created.
- 6. Once you have selected the location, you can optionally also choose to encrypt the container, by switching the toggle at the bottom to "Create encrypted container" and entering a password.

| Specify the path of the co | ntainer: |
|---|----------------------|
| Container (E:\2.vmdk) | Browse |
| Create standard conta | ainer |
| Oreate encrypted con | tainer |
| Enter password: | ••••• |
| Verify password: | |
| | |
| | < Back Next > Cancel |

7. Click Next to go to the Configuration Summary screen. Review the summary and press the "Go" button to start the container creation process when ready.

On the TARGET server

1

1. Run and activate the software on the target server. You will first see the main migration screen. Select the fourth option, "Moving from container to machine" and click Next.

| Zinstall | 6.2.4.4 |
|--|---|
| Scenario selection | Scenario selection Select the migration scenario |
| Prerequisite check Source selection Target selection Configuration Summary Migration | Moving between two machines Transfer from one machine to another over the network Moving from old hard drive Transfer from old hard drive connected internally or externally |
| | Moving from machine to container Create an image of current machine for backup and migration |
| | Moving from windows.old folder Restore old Windows contents in-place from windows.old folder |

- 2. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 3. On the next screen, browse to locate the container you will be deploying on this machine, then click Next:

| Zinstall | |
|---|---|
| Scenario selection Machine selection | Source selection Select migration source |
| Source selection | |
| Target selection | |
| Configuration Summary | |
| Migration | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| (| Specify the path of the virtual container: |
| | Browse |
| | |
| | < Back Neve > Cancel |

- 4. You will see the SSD mode option screen. If you require a hybrid SSD storage support, see Scenario 5: SSD Mode for more information. Otherwise, simply click Next to continue.
- 5. You will see the Configuration Summary screen. Review the summary and press the "Go" button to start the migration when ready.

During the migration process Zinstall shows how migration stages advance. No user action is required at these stages.

IMPORTANT: Even if the progress bar does not advance for a long time, or the server's display becomes black, it does not mean the server is stuck. The entire transfer process may take a very long time. It depends on multiple factors, such as network connection speed hard drive condition and bad sectors, hard drive speed, overall performance etc.

Accordingly, the progress bar may not show progress for hours – it is normal.

If, after a while, the screen on the Target server becomes black, move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new server, the migration is complete, and you can safely exit the software on the SOURCE server as well, by pressing the "Cancel" button.

Scenario 3: Rescuing a broken server / Migration from another hard drive

To connect the SOURCE internal hard drive externally to the TARGET server, you need a USB hard drive enclosure, or any suitable adapter(USB / eSATA / Firewire). An adapter can be purchased separately (usually available at a server store for a few dollars).

IMPORTANT: The Source hard drive should contain the entire Source system. Just copying some of the files – even when performed using some of the third-party hard drive cloning software / backup products–may not be enough to perform a migration. If the entire hard drive needs to be copied before the migration, it is recommended to use the Zinstall HDD product for this purpose.

To perform the transfer:

- 1. Turn off the SOURCE server
- 2. Dismount the SOURCE hard drive from the SOURCE server
- 3. Connect the SOURCE hard drive to the TARGET server either internally, or using an external enclosure / adapter
- 4. Turn the TARGET server on, and start Windows
- 5. Run and activate the software on the target server. You will first see the main migration screen. Select the second option, "Moving from old hard drive", and click Next.

| Scenario selection | Scenario selection Select the migration scenario | | |
|---|---|--|--|
| Prerequisite check Source selection Target selection Configuration Summar Migration | Moving between two machines Transfer from one machine to another over the network | | |
| | Moving from old hard drive Transfer from old hard drive connected internally or externally | | |
| | Moving from machine to container | | |
| | Moving from container to machine Transfer from a backup or VM container to this machine | | |
| | Moving from windows.old folder Restore old Windows contents in-place from windows.old folder | | |
| | Select migration type Migrate programs, settings, and user profiles | | |
| | O Migrate settings and user profiles only | | |
| | O Migrate settings and user profiles with OVERWRITE option | | |
| | | | |
| | | | |

- 6. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 7. You will next see the will see the "Source selection" screen. The source hard drive will appear in the description area. If more than one hard drive is connected, select the appropriate source hard drive from the list.



- 8. Once you have completed the Source selection, click Next to continue.
- 9. You will see the SSD mode option screen. If you require a hybrid SSD storage support, see Scenario 5: SSD Mode for more information. Otherwise, simply click Next to continue.
- 10. You will see the Configuration Summary screen. Review the summary and press the "Go" button to start the migration when ready.

IMPORTANT: During the migration process Zinstall WinServ shows how migration stages advance. No user action is required at these stages. Even if the progress bar does not advance for a long time, or the server's display becomes black – this does not mean the server is stuck. If the screen on the TARGET server becomes black, move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new server, the migration is complete. Press "Reboot" to finish the process.

Additional Options

SSD mode

If the Target server has a hybrid SSD-HDD configuration, e.g. a smaller SSD for OS and applications, and a larger HDD for data, you can use the dedicated SSD migration mode. In this mode, migrated data will be put onto the larger HDD drive, while the application settings and user settings will be integrated into the OS on the smaller SSD drive.

This scenario is not a separate process. Rather, in each of the other scenarios, you will be given an option to use SSD Mode - after the Target selection screen.

In order to initiate SSD Mode, select the second option – "SSD Mode / Optimized target selection". Then, select the larger drive from the dropdown list below. Once done, click Next and continue with the appropriate transfer scenario according to its appropriate section of this guide.

| Zinstall | Target selection Required space: 21 GB |
|--|---|
| Machine selection Prerequisite check Source selection Target selection Configuration Summary | Please select migration mode Typical Drive C:\ (4,777 MB free of 25 GB) S5D Mode / Optimized target selection |
| Migration | Drive E:\ (499 GB free of 499 GB) |
| | |
| | <pre></pre> < Back Next > Cancel |

Transferring profiles, settings and data – but NOT applications

In all scenarios, the product allows to transfer only profiles, settings and data – without transferring applications. An example of such transfer is when migration is performed to a machine which already has a corporate standard "golden image", where applications are already installed, but data and settings are missing.

This scenario is not a separate process. Instead, this option is available in all scenarios. It is toggled by a switch on the main Scenario Selection screen on the Target server.

To perform a migration WITHOUT migrating programs (but WITH migrating profiles, settings, and files) – switch the selection to the second option, "Migrate settings and user profiles only".



You can also use this option in Overwrite mode (3rd position). In this case, when copying a file that already exists on the new server, it will be overwritten with the source copy (normally, no overwrites are done).

Selective Migration

In all of the scenarios above, the product allows to perform a selective migration: transferring only chosen parts of the source system, instead of all of its applications, settings and files.

IMPORTANT: This is an advanced configuration. Defining selective rules incorrectly may lead to inconsistent migration results. **If you are not sure** about your selective migration, contact a migration specialist before proceeding.

To perform a Selective Migration in one of the scenarios above:

 During migration configuration on the new server, press the "Advanced" button. It will be present on the "Source Selection" screen when migrating over the network, and on the "Target Selection" screen when migrating from a container / folder:



 The "Settings" menu will open. Press the "Activate Advanced Settings Mode" button to initiate selective migration options.

NOTE: This process will take a while to complete. Wait until you see the selection list to continue.

| Settings | | ? × |
|------------------------|---|--------|
| Selective Migration | Start Files and Directories Programs User Profiles Registry Activate Advanced Settings Mode | |
| | ОК | Cancel |

3. Once the initialization is complete, Selective Migration options become available in 4 separate tabs: **Files and Directories**, **Programs**, **User Profiles**, and **Registry**.

| Settings | 2 |
|-----------|---|
| | Start Files and Directories Programs User Profiles Registry |
| | Check programs in the list to excude from migration Select All Clear All |
| Selective | Date Program Version Path Action ^ |
| wigration | ☑ 2014-08-16 23:20:33 Google Chrome 36.0.1985 C:\Program Files (x86)\Google\ Include |
| | ☑ 2014-06-23 18:11:10 Google Talk Plugin 5.4.2.18903 Include |
| | ☑ 2014-06-24 22:18:00 Google Update Helper 1.3.24.15 Include |
| | ☑ 2012-11-09 17:19:04 Intel(R) Control Center 1.2.1.1008 C:\Program Files (x86)\Intel\Int Include |
| | 2012-11-09 17:16:55 Intel(R) Management Engine Co 8.1.0.1252 C:\Program Files (x86)\Intel\Int Include |
| | ☑ 2012-11-09 17:25:39 Intel(R) My WiFi Dashboard 15.05.5000 C:\Program Files\Intel\ Include |
| | ☑ 2013-11-23 01:45:27 Intel(R) PRO/Wireless Driver 16.01.5000 C:\Program Files\Intel Include |
| | ☑ 2013-06-06 17:29:00 Intel(R) Processor Graphics 9.17.10.2849 C:\Program Files (x86)\Intel\Int Include |
| | V 2012-11-09 17:24:16 Intel(R) PROSet/Wireless for Blue 15.5.0.0344 C:\Program Files\Intel\ Include |
| | Revert Program Rules Apply Program Rules |
| | Reverting diminical apply nogramical a |
| | Load Save |
| | OK Cancel |

4. Files and Directories selection:

In the Files and Directories tab, Exclude and Include rules can be defined on chosen files or folders.

- a. To add a new rule, browse for, or type in, the path in the path input on the top right, and select Exclude / Include on the left. Then, click the "Add Rule" button.
 - a. If you are typing the path manually, make sure to type in the full path, including the drive letter
 - b. If you are browsing for the path, make sure to toggle "Directory" or "File" in the left combo box, and choose the appropriate drive letter from the combo box after the word "volume":

| Use add and remove buttens to define file system migration rules. Click Apply File Rules to approve your changes. | \frown |
|---|----------|
| Exclude 🕑 Directory 🔻 on volume 🛛 E:\ 🔻 Type or dick Browse | Browse |
| | |

- b. An Exclude rule means that the file or folder will not be transferred to the target system. It will appear with an unchecked check box in the Type column, and with the word "Exclude" in the Action column. To toggle the rule to Include, just click the checkbox on the left. <u>For example:</u> excluding the folder "E:\temp" means that "E:\temp" and all of its contents will not be transferred (while everything else will be).
- c. An **Include rule** means that the file or folder will be transferred to the target system, even if their parent folders have been excluded. It will appear with a checked check box in the Type column, and with the word "Include" in the Action column. To toggle the rule to Exclude, just click the checkbox on the left.

<u>For example:</u> **including** "E:\temp\subfolder" means that it will be transferred, even though the rest of "E:\temp" will not because of the exclude rule in the previous section.

| Туре | Path | Action |
|----------|-------------------|---------|
| Direct | E:\Temp\ | Exclude |
| ☑ Direct | E:\Temp\Subfolder | Include |
| | | |

5. Programs selection:

In the Programs tab, you can prevent programs from transferring to the target system.

- a. By default, all programs are marked with a checkmark on the left, meaning that they all will be transferred to the target system. You can also change click the "Clear All" button if you prefer to start with no programs being transferred.
- b. By click the checkmark on the left of each program description, you can toggle whether it will or will not be transferred to the target system.
- c. If you choose to uncheck a program, for which the path to its files is unknown, you will be prompted to provide said path. If you do not know where the files are stored, cancel that prompt. In such case, some of the files may be transferred, but the program will still be excluded from the target system.



6. At any point, you can save your current rules into a configuration file, by pressing the "Save..." button. You can then load the rules you have defined at a later point, or if you decide to run this migration again.

It is strongly recommended to save your rules before starting the migration.

| Settings | | | | ₹ <mark>×</mark> |
|-----------|----------------------------|---|---------------|------------------------------|
| | Start Files and Directorie | s Programs User Profiles Registry | | Select All Clear All |
| Selective | Date | Program | Version | Path _ |
| Migration | 2013-06-06 18:33:34 | Absolute Reminder | 2.1.0.8 | |
| | 2012-11-09 17:40:20 | Amazon Browser App | 1.0.0.0 | |
| | 2013-06-06 18:33:34 | Atheros Communications Inc.(R) AR81Family Gigabit/F | 2.1.0.6 | C:\Program Files (x86)\Ath |
| | 2013-08-16 00:06:19 | Brother MFL-Pro Suite MFC-J280W | 1.1.6.0 | C:\Program Files (x86)\Bro |
| | 2013-06-06 18:33:34 | CyberLink LabelPrint 2.5 | 2.5.5415a | C:\Program Files (x86)\Cyl |
| | 2013-06-06 18:33:34 | CyberLink Media Suite 10 | 10.0.1.1913 | C:\Program Files (x86)\Cył |
| | 2012-11-09 17:32:32 | CyberLink Media Suite Essentials | 10.0 | C:\Program Files (x86)\Cył |
| | 2013-06-06 18:33:34 | CyberLink Power2Go 8 | 8.0.0.1904 | C:\Program Files (x86)\Cył 🔻 |
| | • | m | | 4 |
| | | R | evert Program | Rules Apply Program Rules |
| | | | | |
| | | | (| Load Save |
| | | | | |
| | | | | Cit Cancel |

7. Once you have defined the rules as needed, click the "OK" button to return to the Source Selection screen and continue with the migration process.

Command Line Execution

Zinstall WinServ may also be executed from a command line interface, instead of manual GUI selection.

General command line flags:

| serial= <serial_number></serial_number> | Specify the Serial Number, without dashes or spaces. |
|--|---|
| email= <email_address></email_address> | Specify the email address (use if support is contact required). |
| eula=yes | Confirm acceptance of EULA. |
| method=[m2c c2m] | Scenario type. m2c: Machine to container c2m: Container to machine |
| container= <iuli_patn_wner< td=""><td>re_to_create_container>:</td></iuli_patn_wner<> | re_to_create_container>: |
| | Full path where the container will be created (m2c), or path to existing source container (c2m). Expected to exist and be accessible. |
| enablelog=yes | Create a short text log in the execution path. |

Exclude rules flags:

Machine-to-Container mode exclude modifiers:

Use these to exclude some contents from getting captured into the container. **Only valid in m2c mode**.

--m2cignoreotherprofiles=yes

Only capture the current user profile folder (skip other user profile folders).

--m2c_rules=<full_path_to_folder_exclude_rules_file>

Path to a file specifying a list of folder / file paths to exclude from the container. One entry per line. Can be exact paths or wildcard paths.

Container-to-Machine mode exclude modifiers:

Use these to exclude some contents from getting deployed to the machine. **Only valid in c2m mode**.

```
--c2mignoreotherprofiles=yes
```

Only deploy the current user profile (skip other user profiles).

--c2m program rules=<full path to program exclude rules file>

Path to a file specifying a list of programs to exclude from container deployment. One entry per line. Should use wildcards unless the name is full and exact.

Examples - general:

To migrate a machine to a container:

```
zinstall_winserv.exe --serial=<serial_number> --email=<email_address>
--eula=yes --method=m2c
--container=<full_path_where_to_create_container> --enablelog=yes
```

zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ --email=it@example.com --eula=yes --method=m2c --container=c:\temp\container.vmdk --enablelog=yes

To migrate from a container to a machine:

```
zinstall_winserv.exe --serial=<serial_number> --email=<email_address>
--eula=yes --method=c2m
--container=<full_path_where_to_create_container> --enablelog=yes
```

zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ --email=it@example.com --eula=yes --method=c2m --container=c:\temp\container.vmdk --enablelog=yes

To run the product in interactive mode (GUI wizard), but automatically enter the serial number and accept EULA:

```
zinstall_winserv.exe --serial=<serial_number> --email=<email_address>
--eula=yes
zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ
```

```
--email=it@example.com --eula=yes
```

Zinstall WinServ User Guide

Examples – selective migration:

To migrate a machine to a container, excluding a set list of folders:

```
zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ
--email=it@example.com --eula=yes --method=m2c
--container=c:\temp\container.vmdk --enablelog=yes
--m2c_rules=c:\temp\container-excludes.txt
```

Where the container-excludes.txt file can look like this:

```
C:\ESD
C:\temp
C:\Databases\*\Logs <- This is a wildcard matching C:\Databases\DB1\Logs,
C:\Databases\DB2\Logs and so on
```

To migrate a machine to a container, excluding a set list of folders and excluding all other user profile folders except for the currently logged in user:

```
zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ
--email=it@example.com --eula=yes --method=m2c
--container=c:\temp\container.vmdk --enablelog=yes
--m2c_rules=c:\temp\programs-excludes.txt
--m2cignoreotherprofiles=yes
```

Zinstall WinServ User Guide

To migrate from a container to a machine, excluding a set list of programs:

```
zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ
--email=it@example.com --eula=yes --method=c2m
--container=c:\temp\container.vmdk --enablelog=yes
--c2m rules=c:\temp\programs-excludes.txt
```

Where the programs-excludes.txt file can look like this:

| *Office*2013* | <- This excludes Microsoft Office Professional 2013 Click-to-Run, |
|---------------|--|
| | Microsoft Office Home 2013 and so on. |
| *iTunes* | <- This excludes iTunes. Make sure to put wildcards before and after, to |
| | match other parts of a typical name, such as a specific version number. |

To migrate a machine to a container, excluding a set list of programs and excluding all other user profiles except for the currently logged in user:

```
zinstall_winserv.exe --serial=AAAABBBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ
--email=it@example.com --eula=yes --method=c2m
--container=c:\temp\container.vmdk --enablelog=yes
--c2m_rules=c:\temp\programs-excludes.txt
--c2mignoreotherprofiles=yes
```

Post-migration adjustment rules

In addition to configuring the migration itself, you can define post-migration adjustments. These are special rules for string replacement in files of your choice. For example, you can set a rule to adjust configuration files by changing the old server name to the new server name or the old server IP address to a new IP address.

To access the post-migration rules screen, open the Advanced menu on the Target, and go to the Post Migration Rules tab there.

| 0 | | | Settings | | ? × |
|------------------------|---|---------------------|---|-------------------|--|
| Selective Migration | Config Patcher ✓ Enable post migration adjustments Use add and remove buttons to define post migrati Within these files: C:\ServerConfigs*.ini Replace ✓ CurrentOS=2003 | ion rules. Click Ap | oply Rules to approve your chang with CurrentOS=2012 | es. Remove All | not including subfolders • Remove Rule Add Rule |
| Post | Path | Action | What | With | Туре |
| Migration | C:\MyApplication\Configs\main.cfg | Replace | 192.168.1.42 | 192.168.2.142 | not including subfolders |
| Rules | C:\Program Files (x86)*.cfg *.config *.ini | Replace | %OLD_COMPUTERNAME% | %COMPUTERNAME% | including subfolders |
| | C:\Program Files*.cfg *.config *.ini | Replace | %OLD_COMPUTERNAME% | %COMPUTERNAME% | including subfolders |
| | C:\ServerConfigs*.ini | Replace | CurrentOS=2003 | CurrentOS=2012 | not including subfolders |
| | | | | | |
| | | | | | Revert Rules Apply Rules |
| | | | | | OK Cancel |

Click the "Enable post migration adjustments" to be able to add rules there.

You can define the file or folder path which you want to adjust, the string to replace and what to replace it with.

When you define the path to replace, it should be a full path (starting with a drive letter such as C:\...).

It should end with either a file name (for a single file), or a mask for multiple files / multiple folders.

For example,

C:\ServerConfigs*.iniwill match all files with extension .ini in the folderServerConfigs (and its subfolders if enabled)

C:\ServerConfigs*.* will match all files in the folder ServerConfigs – we do not recommend doing this since this could match a lot of files, especially in folders such as Program Files, and lead to a long execution time

C:\ServerConfigs*.ini|*.cfg|*.conf will match all files with extension either .ini or .cfg or .conf

In addition to general strings, you can use the following special strings:

COMPUTERNAME

WINDIR

PROGRAM FILES

PROGRAM FILES X86

COMMON APPDATA

And these strings will use the old server's environment:

OLD COMPUTERNAME

OLD WINDIR

OLD PROGRAM FILES

OLD PROGRAM FILES X86

OLD COMMON APPDATA

In addition to adding rules in the user interface, you can also save them to a file (using the Save button).

If that file is placed in the same folder as the WinServ executable, those rules will be added automatically, which can be used to replicate these rules on different migration runs.

Alternatively, you can also manually load the rules file using the Load button.

Appendix A

Web Activation

If a server is not connected to the Internet, Zinstall WinServ will be unable to activate itself automatically. In this case, Zinstall WinServ will prompt you to perform a Web Activation manually.

- 1. On any server with an Internet connection, open a browser (for example, Internet Explorer)
- 2. Go to<u>www.zinstall.com/activation</u> It doesn't matter which server you use for this you can even use your phone.
- 3. In browser Web Activation form, enter the Activation ID, Serial Number and email as they are shown in the running Zinstall WinServ window.
- 4. Click *Activate* in the browser.
- 5. The Web Activation form will show you a Confirmation ID.
- 6. Enter this Confirmation ID in the running Zinstall WinServ window.
- 7. Click Activate in the running Zinstall WinServ window.



CHKDSK

To perform a Windows CHKDSK hard drive consistency check, and fix possible errors, do the following:

- 1. Open Start Menu, then "My Server"
- 2. Right click on your hard drive, select "Properties"
- 3. Go to the "Tools" tab
- 4. In the "Error Checking" box, click on "Check Now"
- 5. Make sure both options are checked: "Automatically fix file system errors" and "Scan for and attempt recovery of bad sectors"
- 6. Click Start
- 7. If you are prompted to reboot, accept.

If you have several hard drives, you need run CHKDSK for each of them.

Converting a FAT32 drive to NTFS file system

If some of the drives on your SOURCE server are using the FAT32 file system, they should be converted into the NTFS file system in order to ensure a reliable transfer. Do the following for each of the FAT32 partitions:

- Open a command prompt by going to Start Menu -> All Programs -> Accessories -> Command Prompt
- 2. In the command prompt, type the following command and press enter: convert c: /FS:NTFS
- 3. If you are asked to provide a "volume label", type in the label the drive has as seen in My Server. For example, if My Server has "Drive C: [My Drive]", you need to type in "My Drive".
- 4. Answer YES to question about "volume in use, do you wish to force?"
- 5. Answer YES to question about "system volume, schedule for next boot?"
- 6. Restart your server
- When windows begins to start , let it do a disk check (it will show the message "the type of the file system is FAT, press any key to cancel disk check" - do NOT press any key at this stage)
- 8. Once a disk check is done, conversion to NTFS will begin. This may take some time. Wait for it to finish

Troubleshooting Guide

Message Codes

| Message Code | Troubleshooting instructions |
|-----------------|--|
| 10 | A currently running application is preventing Zinstall from operating properly. Close down all applications running on your server and run Zinstall WinServ again. If you are unsure which application to close - restart your server and run Zinstall again. |
| 11 | No activations remaining Your license has been activated on too many servers, and cannot be activated on more servers. Another license is required. |
| 13 | You are trying to activate the wrong product with your serial number / Anti Virus or Firewall blocking Zinstall from loading 1. Make sure the serial number you are using fits the product you are trying to activate it with. For example, if you are activating Zinstall WinWin, make sure you are using a WinWin serial. 2. Make sure antiviruses and firewalls are uninstalled or fully disabled. |
| 122 | In-place upgrade attempt without a Windows.old folder You have chosen the "in-place upgrade" scenario, however your Windows does not have an old Windows.old archive. Without Windows.old, there is nowhere to migrate from. If you have previously created a container of your original Windows, you need to use the "Migration from container to machine" scenario to continue. |
| 190 | Critical Windows service is corrupted on your server This message code appears when an essential standard Windows component (WMI) is either malfunctioning or corrupted. Although such malfunctioning / corrupted component is not part of Zinstall software, it needs to be fixed in order to allow proper execution of Zinstall within the Windows installation. When this message is shown, it also includes detailed information about the name of the malfunctioning component and a failure code which can be used for troubleshooting. Workaround: If you cannot fix the WMI issue itself, you can perform a workaround migration, using a USB external hard drive – and bypassing WMI. Here is how: 1. On your OLD server, download the Microsoft Disk2vhd utility from this link: |

| | http://www.zinstall.com/sto/support/disk2yhd.exe |
|-----|---|
| | 2. On your OLD convert run the downloaded disk 2yhd |
| | 2. Off your OLD server, full the downloaded disk2vird. |
| | 3. In the drive list, select ONLY the C: drive. |
| | 4. In the location at the top, click Browse and select your External USB drive. |
| | E Start the dick 2 who canture. This will create a large container file on your USD drive |
| | 5. start the disk2vild capture. This will create a large container me on your OSB drive. |
| | 6. Move the USB drive to your new server. |
| | |
| | 7. On your NEW converting Tinstell Migration WinSony, and colors the converse for |
| | 7. On your New server, run zinstan Migration winserv, and select the scenario for |
| | "Moving from Machine to Container". |
| | 10. In Source selection, browse to select the Container you have on the USB drive (change |
| | |
| | the file type on the right to be able to see it). |
| | 11. Click Next until you start the migration. |
| | |
| | |
| | |
| | |
| | |
| | |
| | The network connection between your servers has been disconnected during the |
| | The network connection between your servers has been disconnected during the |
| | migration. |
| | |
| | This may be caused by |
| | |
| | Faulty network adapter on the SOURCE server |
| | • Faulty network switch that fails during the migration because of its failure to |
| | be all a closes of the second all and the ingration, because of its fundre to |
| | nancie of large volumes of data copied |
| | Firewall/antivirus/security software interfering with network traffic. |
| | |
| | Troubleshooting |
| | Toubleshooting. |
| 252 | Make sure the network cable and adapters are properly connected physically. |
| 252 | 2. Make sure both SOURCE and TARGET servers are online and not turned off / |
| | hibernating |
| | |
| | Make sure there are no firewalls/antiviruses/security software installed / running on |
| | either SOURCE or TARGET servers |
| | 4 If you are using a direct cable connection use a router connection instead |
| | - I you die dang a direct cable connection, die droute connection instead. |
| | 5. If you are using a router connection, use a direct cable connection instead |
| | 6. Close all programs on both server before starting the migration again |
| | |
| | If the problem persists, the recommended solution is: |
| | in the problem persists, the recommended solution is. |
| | 1. Remove the hard drive from the SOURCE server and connect it to the TARGET server. |
| | 2. Perform the migration using that hard drive as migration source (see User Guide for |
| | detailed instructions) |
| | |
| | VSS iccup |
| | |
| 254 | Volume Shadow copy Service (VSS) is a Windows component that allows creating a |
| 254 | snapshot of a volume in order to copy it in a consistent manner. For more details. see |
| | Volume Shadow Copy Service Overview |
| | |
| | Zinstall uses VSS on the source server in order to create a consistent copy of all its disks. |

| | In case of a VSS problem, Zinstall can still perform the migration, but this may cause | | | |
|-----|---|--|--|--|
| | issues in later stages of the migration, if file system and/or registry activity happens on | | | |
| | the course conver during the migration | | | |
| | the source server during the migration. | | | |
| | | | | |
| | If Zinstall WinServ shows a warning about VSS, either close all applications on the source | | | |
| | server in order to lower the chances of problems later on, or resolve the VSS problem | | | |
| | before proceeding with the migration process according to the following guide | | | |
| | before proceeding with the migration process, according to the following guide. | | | |
| | How to solve VSS problems? | | | |
| | 1. On your SOURCE server, download the vshadow utility from: | | | |
| | http://www.zinstall.com/sto/tools/vshadow.exe | | | |
| | | | | |
| | 2. Open a command prompt and for each volume on your source server, run | | | |
| | "vshadow x:" where "x" is the volume drive letter. For example: | | | |
| | "vshadow c:" | | | |
| | This should result in a lot of text being printed out. | | | |
| | 2 If the VSS is working fine, the output should and with the line "Spanshot creation | | | |
| | 5. If the v55 is working line, the output should end with the line Shapshot creation | | | |
| | done." | | | |
| | 4. If a VSS problem is still present, the output will end with a detailed problem | | | |
| | description and error code. | | | |
| | 5. You can use this problem description and error code to either contact Microsoft's | | | |
| | support or try and find a solution using available knowledge base and Internet | | | |
| | support of thy and find a solution using available knowledge base and internet | | | |
| | sources. | | | |
| | Once you get VSS to work, run the migration again. | | | |
| | | | | |
| | Concrelerrer | | | |
| | | | | |
| | Troubleshooting: | | | |
| 262 | 1. Perform a CHKDSK - hard drive consistency check - on the hard drive of the SOURCE | | | |
| 202 | server | | | |
| | 2. Make sure there are no firewall/antivirus/security software installed / running on | | | |
| | 3 Restart both the SOURCE and the TARGET servers | | | |
| | A Then run the migration again | | | |
| | | | | |
| | One or more of the partitions on the server's hard drive are formatted using the | | | |
| | FAT32 file system | | | |
| | | | | |
| | For a valiable transfer, FAT22 partitions should be upgraded to the NITEC file system | | | |
| | For a reliable transfer, FAT32 partitions should be upgraded to the NTFS file system. | | | |
| | | | | |
| 298 | Iroubleshooting: | | | |
| 250 | Please do the following for each of the partitions mentioned in the message you have | | | |
| | seen. | | | |
| | 1. Open a command prompt by going to Start Menu -> All Programs -> Accessories -> | | | |
| | Command Prompt | | | |
| | 2 In the command prompt, type the following command and proce onter: | | | |
| | 2. In the command prompt, type the following command and press effer. | | | |
| | | | | |
| | 3. If you are asked to provide a "volume label", type in the label the drive has as seen in | | | |

| | My Server. For example, if My Server has "Drive C: [My Drive]", you need to type in |
|-----|---|
| | A Answer VES to question about "volume in use, do you wish to force?" |
| | 5. Answer YES to question about "system volume, schedule for next boot?" |
| | 6. Restart your server |
| | 7. When windows begins to start , let it do a disk check (it will show the message "the |
| | type of the file system is FAT, press any key to cancel disk check" - do NOT press any |
| | key at this stage) |
| | 8. Once a disk check is done, conversion to NTFS will begin. This may take some time, |
| | please wait for it to finish |
| | 9. Once the conversion is finished, Windows will reboot itself once more. |
| | Your file system is now upgraded to NTFS. |
| 328 | VSS warning |
| | To troubleshoot, see Message 254 (above) |
| | Minustian from 64 bit to 22 bit is not allowed for this system |
| 275 | Migration from 64 bit to 32 bit is not allowed for this system |
| 3/5 | ungrade the target Windows to 64 bit. Then, run Zinstall again |
| | |
| | |
| | Source hard drive or storage location has disconnected during the migration |
| | The source hard drive (or source storage location) has disconnected from the target |
| | corruption of its data preventing the data from being read |
| 467 | |
| 160 | Steps to resolve: |
| 409 | - Make sure the source drive is securely connected to the target server |
| | Run CHKDSK on the source drive (see Appendix above). |
| | - Restart the server |
| | Then, run Zinstall again. |
| | |
| | Source server has disconnected |
| | Migration source has disconnected during the migration process. |
| | This error may also be caused by a hard drive corruption issue on the source server. |
| 471 | Postart both conversions the network cables are preperly connected |
| 471 | It is strongly recommended to avoid low quality connections, such as unstable wireless |
| 472 | networks. |
| | |
| | To fix any possible hard drive corruption, run CHKDSK on the source drive (see Appendix |
| | above). |
| | |
| 481 | SSD mode initiated, but no secondary drive is available |

| You have most likely selected more than one drive on the source computer and tried to initiate SSD Mode. Make sure to select only the C drive on Source selection, and you will |
|---|
| be able to initiate SSD mode on Target selection. |

After the Migration

Software activation

In some cases, third-party vendors require re-activation of their software, when it determines that system's component(s) are changed. Vendor policy in this regard varies and depends on several factors, such as: which and how many hardware components were changed, and which particular edition of the software is used.

In most cases, software re-activation can be done online through the software itself (when prompted to re-activate), or via the vendor website.

Incompatible applications

When using Zinstall WinServ to transfer between an older version of Windows Server to a newer one (such as 2003 to 2012), or between 32-bit and 64-bit systems, you may find that some of the applications are inherently incompatible with the TARGET system. For example, an application using 32-bit drivers will not run on a 64-bit system "out of the box".

When you encounter such applications, you should contact the software vendor to check whether a different version of the software, compatible with the TARGET system – and how the incompatibility can be fixed. Alternatively, some applications can be made to run using the Windows built-in "compatibility mode" setting (configurable by right-clicking on the application and selecting "Properties").

If your primary concern in the migration is to continue using legacy/incompatible applications, consider using Zinstall to perform a P2V migration.

Applications using an SQL server database

In some rare cases, when SQL server database engine, such applications may not function correctly after the transfer.

To resolve this issue manually, mark the SQL server service to launch as the "SYSTEM" user.

Alternatively, go to "Control Panel" -> "Add/Remove Programs", and select "Repair" for the required application.